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(71) Applicant (for all designated States except US): **EQUTECH APS [DK/DK]; Forskerparken Aarhus, Gustav Wieds Vej 10, DK-8000 Aarhus C (DK).**

(72) Inventor; and

(75) Inventor/Applicant (for US only): **JOHANSEN, Lars, Gottfried [DK/DK]; Banevænget 7, DK-9280 Storvorde (DK).**

(74) Agent: **LARSEN & DIRKEHOLM A/S; Skandinavisk Patentbureau, Banegårdspladsen 1, P.O. Box 362, DK-1570 Copenhagen V (DK).**

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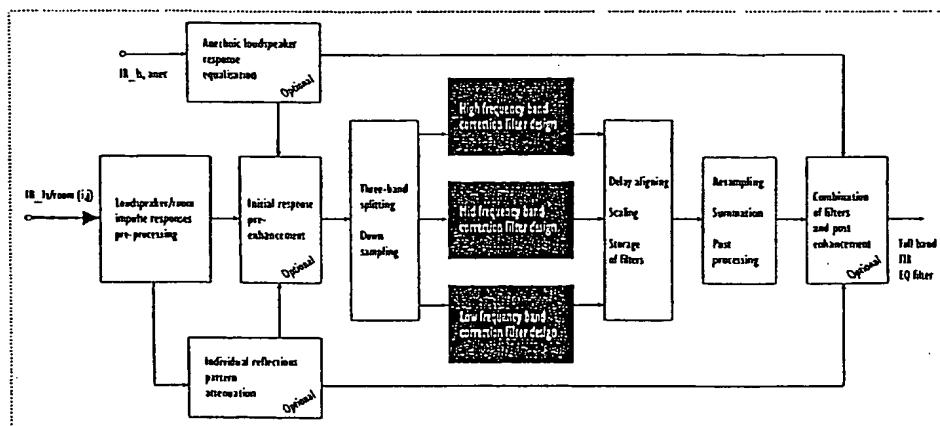
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(54) Title: **METHOD OF DIGITAL EQUALISATION OF A SOUND FROM LOUDSPEAKERS IN ROOMS AND USE OF THE METHOD**



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(57) **Abstract:** A method of digitally equalising the sound from a loudspeaker that is placed in a certain room, said room having varying acoustic properties affecting the way a user perceive the sound, is corrected in a certain part of the room, by measuring one or more impulse responses through a microphone, said impulse responses being processed in a pre-processing algorithm, in at least two parallel frequency band correction algorithms and a post processing algorithm. As an option a pre-correction algorithm can be coupled between the pre-processing algorithm and the frequency band correction filters. The pre-correction algorithm is adapted to receive input representing measured loudspeaker characteristics under ideal condition in an anechoic room, and/or parameters from a reflections attenuation algorithm. From the post processing algorithm the final filter parameters are stored and used for correcting sound from a source connected to the amplifier feeding the loudspeaker to the acoustic behaviour of the actual room the loudspeaker is placed in. If any parameters in the room are changed then the correction method according to the invention can be repeated in order to set up new filter parameters.